

CLAIMS

- Sub 62
1. A composite magnetic body, comprising a silicone rubber and a soft magnetic powder dispersed in the silicone rubber.
 2. A composite magnetic body as recited in claim 1, wherein the silicone rubber is at least one type of material selected from a group of solid silicone rubber and chemically setting liquid silicone rubber.
 3. A composite magnetic body as recited in claim 1, wherein the silicone rubber contains an additive comprising at least one element selected from a group of platinum, silicon, titanium, iron, copper, nickel, and cobalt.
 4. A composite magnetic body as recited in claim 1, wherein the silicone rubber contains an additive comprising carbon black.
 5. A composite magnetic body as recited in claim 1, wherein the soft magnetic powder is a magnetic alloy powder having a flat shape.
 6. A composite magnetic body as recited in claim 1, wherein the soft magnetic powder has a specific surface area of 0.1–3 m²/g.
 7. A composite magnetic body as recited in claim 1, wherein the soft magnetic powder has an aspect ratio of 3 or more.
 8. A composite magnetic body as recited in claim 1, wherein the soft magnetic powder is surface-treated with a coupling agent having a SP value ranging from 6 to 10.
 9. A composite magnetic body as recited in claim 8, wherein the coupling agent is at least one compound selected from a group of titanate, aluminate, and silane.
 10. A composite magnetic body as recited in claim 1, wherein the soft magnetic powder is surface-treated with a primer having a SP value less than that of the soft magnetic powder but greater than that of the silicone rubber.

11. An electromagnetic interference suppressing body for suppressing electromagnetic interference brought about by the interference of unwanted electromagnetic waves, wherein said electromagnetic interference suppressing body is made of a composite magnetic body comprising a silicone rubber and a soft magnetic powder dispersed in the silicone rubber.

Sub B3
12. An electromagnetic interference suppressing body as recited in claim 11, wherein the silicone rubber is at least one type of material selected from a group of solid silicone rubber and chemically setting liquid silicone rubber.

13. An electromagnetic interference suppressing body as recited in claim 11, wherein the silicone rubber contains an additive comprising at least one element selected from a group of platinum, silicon, titanium, iron, copper, nickel, and cobalt.

14. An electromagnetic interference suppressing body as recited in claim 11, wherein the silicone rubber contains an additive comprising carbon black.

15. An electromagnetic interference suppressing body as recited in claim 11, wherein the soft magnetic powder is a magnetic alloy powder having a flat shape.

16. An electromagnetic interference suppressing body as recited in claim 11, wherein the soft magnetic powder has a specific surface area of 0.1–3 m²/g.

17. An electromagnetic interference suppressing body as recited in claim 11, wherein the soft magnetic powder has an aspect ratio of 3 or more.

18. An electromagnetic interference suppressing body as recited in claim 11, wherein the soft magnetic powder is surface-treated with a coupling agent having a SP value ranging from 6 to 10.

19. An electromagnetic interference suppressing body as recited in claim 18, wherein the coupling agent is at least one compound selected from a

Sub B3
cont. } group of titanate, aluminate, and silane.

20. An electromagnetic interference suppressing body as recited in claim 11, wherein the soft magnetic powder is surface-treated with a primer having a SP value less than that of the soft magnetic powder but greater than that of the silicone rubber.

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